

Division - CN (2)

Division of Water Resources

William R. Snodgrass-Tennessee Tower 312 Rosa L. Parks Avenue, 11<sup>th</sup> Floor, Nashville, TN 37243

(615) 532-0625

## CONCENTRATED ANIMAL FEEDING OPERATION (CAFO) STATE OPERATING PERMIT (SOP) NOTICE OF INTENT (NOI)

Type of permit you are requesting: SOPCD0000 (design Application type: New Permit  If this NOI is submitted for		SOPC00000 (no Permit Reissuand or Reissuance provide th	ce	Pem	nown, please advise nit Modification number: TNF 000			
OPERATION IDENTIFICATION								
Operation Name: Carmithal Farms				County: MIMIN				
Operation Location/ 390 C.R. 732	Latitude: 35 18 87							
Physical Address: Calhoun TN 373	nO			-	-84 42,74			
Name and distance to nearest receiving water(s):					0 4771			
If any other State or Federal Water/Wastewater Permits have	been obtained for t	his site, list those pen	mit numbe	rs:				
Animal Type: Poultry Swine	Dairy 🔲	Beef Othe	er	211	The Advert			
Number of Animals: 35 900 Number of Ba	rns: 4	Name of Inte	egrator:	Pilgrin	ns Pride			
Type of Animal Waste Management:  (check all that apply)  Liquid  Liquid, Closed System (i.e. covered tank, under barn pit, etc.)								
Attach the NMP NMP Attached Attach the closure	plan Closure	Plan Attached At	tach a topo	graphic map	Map Attached			
PERMITTEE IDENTIFICATION			1 182					
Official Contact (applicant):	Title or Position:			78	0 - 0 - 0			
Mailing Address:	City:		State:	Zip:	☐ Correspondence			
263 C.R.31	RICEVILL	y	TN	37370	☐ Invoice			
Dhone number(s)	E-mail:		A.C =.A/					
4a3-336-8aa5 Optional Contact:	Title or Position:	armayaho	OT COV	100				
Optional Contact.			I (Question)	1 gins	☐ Correspondence			
Address:	City:		State:	Zip:	☐ Invoice			
	E-mail:							
Phone number(s):								
APPLICATION CERTIFICATION AND SIGNATURE (must be signature)	med in accordance	with the requirements	of Rule 0	400-40-0514	n or supervision			
The state of law that this document	Citics cars cobbons		The second of the	_ I aventuants	the intermetion			
in accordance with a system designed to assure	persons who ma	nage the system,	or those	persons di	rectly responsible			
in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information or persons who manage the system, or those persons directly responsible submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible submitted.								
complete. I am aware that there are significantly								
Name and title; print or type								
Russ Carmichael owner   mor chaples								
STATE USE ONLY Reviewer	EFO PARTY	TAFAN	ric Fauna	VED TO	acking No.			
Received Date	Hi	gh Quality Water	00	2015 NO	OC Date			
Impaired Receiving Stream			UL Z D		司里和李子的			

## clarations to Nutrient Management Plan:

ry signature below, I affirm that I have read, understand, and will comply with the wing stipulations from Tennessee's CAFO regulations that apply to my CAFO ation:

All animals in confinement are prevented from coming in direct contact with waters of the state.

All chemicals and other contaminants handled on-site are not disposed of in any manure, litter, process wastewater, or storm water storage or treatment system unless

specifically designed to treat such chemicals and other contaminants.

Pesticide-contaminated waters will be prevented from discharging into waste retention structures. Waste from pest control and from facilities used to manage potentially hazardous or toxic chemicals shall be handled and disposed of in a manner that will prevent pollutants from entering waste retention structures or waters of the state. Chemicals, manure/litter, and process wastewater will be managed to prevent spills. Spill clean-up plans will be developed and any equipment needed for spill clean-up will be available to facility personnel.

All sampling of soil and manure/litter is conducted according to protocols developed by

UT Extension.

All records outlined in the permit that I am applying for will be maintained and available on-site.

Any confinement buildings, waste/wastewater handling or treatment systems, lagoons, holding ponds, and any other agricultural waste containment/treatment structures constructed or modified after April 13, 2006, are or will be located in accordance with NRCS Conservation Practice Standard 313.

A copy of the most recent Nutrient Management Plan will be kept as part of the farm

records and will be maintained and implemented as written.

If applicable, all waste directed to under floor pits shall be composed entirely of wastewater (i.e. washwater and animal waste).

The Tennessee Department of Environment and Conservation Division of Water Resources will be notified of any significant wildlife mortalities near retention ponds or

following any land application of animal wastes to fields.

All employees involved in work activities that relate to permit compliance will receive regular training on proper operation and maintenance (O&M) of the facility and waste disposal. Training shall include appropriate topics, such as land application of wastes, good housekeeping and material management practices, proper O&M of the facility, record keeping, and spill response and clean up. The periodic scheduled dates for such training shall be identified in the current Nutrient Management Plan.

There shall be no land application of nutrients within 24 hours of a precipitation event that may cause runoff. The operator shall not land apply nutrients to frozen, flooded, or

saturated soils.

Rul ( annelso)

JUL 29 2015

#### 1. Farmer/ Producer Information Is ALL litter removed from your farm (i.e. you not apply litter on your land)?\* Yes No \*If the answer is "No," do not complete this form. Please circle one First Name: Russ Last Name: Carmi chas Farm/ Operation Name: armichael Poultry **Tennessee County:** minn 2. Volumes and Calculations **Poultry Type:** Pullet Broiler Layer circle the type(s) The amount of litter removed from a poultry house will Number of birds per house vary depending on the litter moisture content, type and per grow-out: size of birds, and length of time birds are kept in house. Below is a Table summarized from the NRCS Poultry System Calculator V10.0 to assist in placing the litter amount produced per bird and assist in litter calculations. **Number of Houses:** Avg. Weight of Litter Produced (lbs)/ Bird / Market/ Mature **Grow-Out** Weight (lbs) Type of Bird small (3.8 - 5.8) 2.1 2.4 large (5.9 - 7+) Number of Grow-Outs / Year: **Broilers** 8 - 12 Layer **Average Weight of Litter** Produced (lbs.)/ Bird / Grow-Out (see Table at right or use 5.5 your farm average if known) Pullet Take Bolded Letters in Key Column Above and Below to Assist in Calculating Values Below RECEIVED Number of Birds per Grow-Out = A x B = 35000 8 Number of Birds Example: If A = 22,000 and B = 2 and C = 5.5 then: JUL 2 9 2015 22,000 X 2 = 44,000 number of birds Number of Birds per Year = A x B x C = Number of Birds per Year Example: If A = 22,000 and B = 2 and C = 5.5 then: 22,000 x 2 x 5.5 = 242,000 number of birds per year 140x09=560T Total Tons of Litter Produced per Year on the Farm = E x D / 2,000 =

Tons of Litter Produced Example: If E = 242,000 and D = 2.1 lbs. then: 242.000 x 2.1 lbs = 508,200 lbs. / 2,000 = 254 Tons

## **Nutrient Management Plan - Poultry**

**Exporting 100% of Litter Generated** 

	2. Litter Hand	dling and	Storage		- Continuedo			(a.f)			
					To Mark						
	Litter Storage	AND DESCRIPTION OF	THE CANAL DAY	TO SEE	-	San III					
Key	Storage Capacity	within Po	ultry Houses (cu ft)	33,600	N	o. of House	s 4	A PERSONAL			
A	Total capacity w	ithin noult	Width of poultry house ry barns (cu ft) X num	(ft) X Height o	flitter [ft] -	cubic feet o	f storage	The it			
WA F		icimi poulti	y parns (cu tt) X nun	iber of barns		134400	0	cu ft			
	Storage Capacity	within Litt	ter Sheds (cu ft)	1600	The same	No. of Shed	s /	TI SECON			
В	Length of litter she	ed (ft) X Wide	th of litter shed (ft) X He	eight of litter (	ft) = cubic f	eet of storag	e				
	Total capacity w	ithin litter s	storage sheds (cu ft)	X number of	sheds	1600	0	cu ft			
С	C Storage Capacity of Other Storage Areas, if Applicable (cu ft)										
				(64 71)			0 0				
	Total Litter Stora	ige Capacit	y Onsite (A + B +C)	- CHANGE		35,200	0	cu ft			
	Litter Contents	from Man	ure Analysis (as is	basis )*		The state of	Picture 1				
	* Manure analyses litter from my farm	will be perfe	ormed annually, and th	e results will b	e provided	to all parties	removing				
	inter from my jane	ror operatio	n.					100			
	Laboratory Name	House	Date of Analysis	Total N	P <sub>2</sub> O <sub>5</sub> <sup>a</sup>	K <sub>2</sub> O <sup>b</sup>	Units				
							lbs./Ton				
							lbs./Ton	-			
							lbs./Ton	- CO			
		tory result	s. If a new facility, pr	rovide the so	ource of th	e estimates	used.***				
	Notes: N = Nitrogen		P <sub>2</sub> O <sub>5</sub> = Phosphorus Oxide		K <sub>2</sub> O = Potassiu	ım Oxide					
1			as Phosphorus (P), simply mu s Potassium (K), simply multi								
			STATE OF THE STATE				APIM (M				
2170	<b>Mortality Mana</b>	gement									
Dead birds will be disposed of according to State and local laws in a											
way that does not adversely affect groundwater or create public health											
	concern. All mort	alities will b	pe disposed of using:		107/16	THE STATE OF		3000			
	Composti	ng	Incineration	Rende	ring*	Other: La	indfill				
	Wite Commission of the Line of	ida the na	please circle one	derer :							
	*If rendering, include the name and address of renderer.:  DECEIVED							)			
	THE PARTY OF A STATE OF			36.07	A REP		2 9 2015				
	HIS WILLIAM			A Contract	W 18 15			NE ST			
	Closure Plan		PERSONAL PROPERTY OF					THE PARTY NAMED IN			

In the event that poultry production at this location ceases, the following will bedone in 360 days:

- Any litter/ compost currently in storage at the time of closure will be removed and spread elsewhere according to my current NMP.
- All litter in houses will be removed and spread elsewhere according to my current NMP.
- The most current manure analysis performed by an accredited laboratory will

**Best Management Practices/Conservation Practices** st Management Practices/Conservation Practices for Production Areas e following site-specific Best Management Practices (BMPs) and conservation practices will implemented to minimize environmental impacts in production areas (please indicate all at apply). The design and implementation of the BMPs will meet minimum standards set in NRCS Field Office Practice Standard and/or the NRCS Animal Waste Handbook. Buffer strips/filter strips • Silt fencing, riprap, stone gabions, or other structural erosion control Maintain roads and heavy traffic areas Proper manure/litter storage (i.e. under cover, prevents runoff) Balanced diet/ration to prevent excessive nutrients in manure/litter Regular inspections and maintenance of structures and equipment General housekeeping (i.e. cleanup of waste/litter spills during transfers) • Other (please describe in detail below, or attach additional pages as needed ): version of Clean Water ertify that: Incontaminated stormwater runoff shall be diverted away from manure, litter, process wastewater, waste Clean water will be diverted, as appropriate, from the production area. Please provide a brief explanation/description of how clean water will be diverted below: Grade work to divert water from all waste gives and Guttering also west JUL 2 9 2015 ility Maintenance following maintenance activities will be performed at the facility (please indicate all that apply): • Regular inspections, maintenance, and repair of structures, equipment, and vehicles Replacement and upgrade of structures, equipment, and vehicles as needed Regular training of facility personnel in maintenance/housekeeping techniques Maintenance of vegetation (i.e. mowing, weeding, seeding) Other Inlease describe in detail helow, or attach additional pages as needed ):

## **Exporting 100% of Litter Generated**

#### 4. Checklist

Use this sheet to help ensure that you have included all required items in order for your CAFO application and Nutrient Management Plan to be approved. Please attach the following items to this worksheet to complete you CAFO permit application.

#### **Forms**

- Signed revised Notice of Intent Form
- Signed Declarations to Nutrient Management Plan

#### Maps



- Full color map of Farm/ Operation Showing the Location of Barns/ Houses, Compost Bins, Litter Storage Bins, Nearby Roads, Streams, Wetlands, etc.
- Full color topographical map of the Farm/ Operation showing property lines and location of poultry houses.

#### Manure Analysis



Annual Manure Analysis Performed by an Accredited Laboratory

Mail complete packet to:

Heidi McIntyre-Wilkinson, Environmental Specialist Ellington Agricultural Center - Holeman Building Nonpoint Source and CAFO Programs P.O. Box 40627 Nashville, TN 37204

The completed packet can also be scanned and sent via electronic mail to: Heidi.McIntyre-Wilkinson@tn.gov

#### 5. Certification

As the owner/operator, I am certifying that I am the decision-maker for this operation. All information included in my CAFO permit application packet is complete and accurate to the best of my knowledge. I understand that I am responsible for the implementation of the NMP and for maintaining all necessary records for the operation.

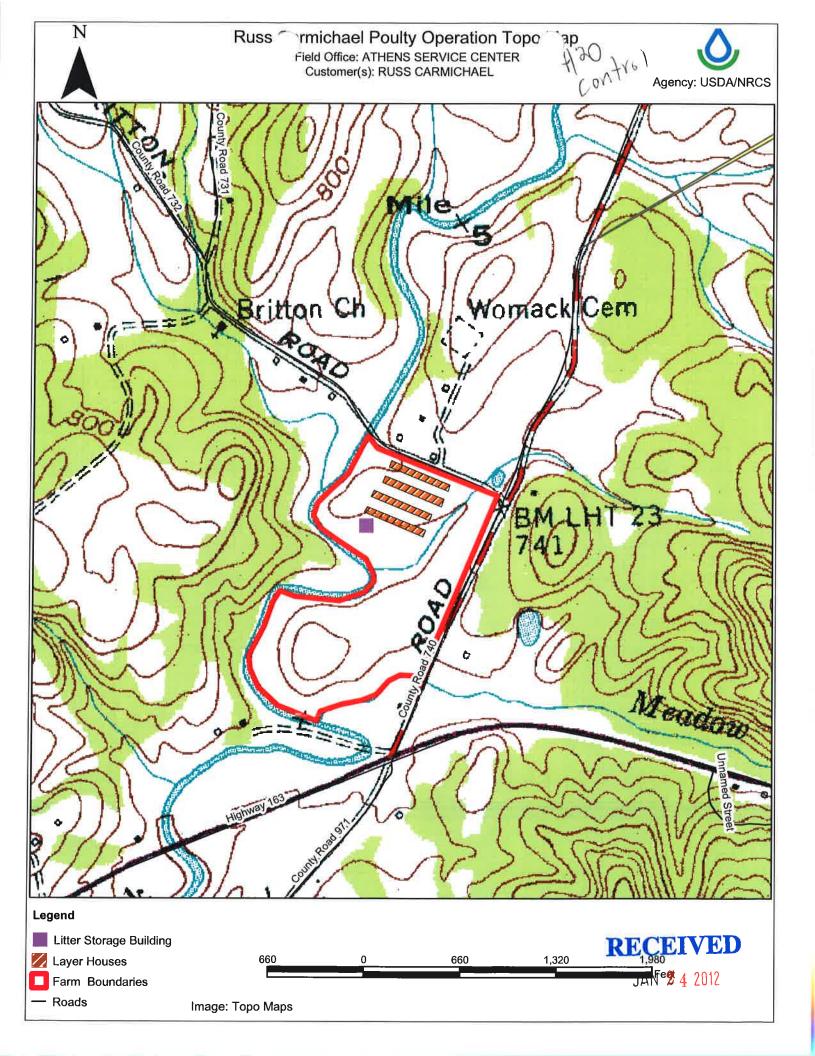
Signature: Rust CommeRell

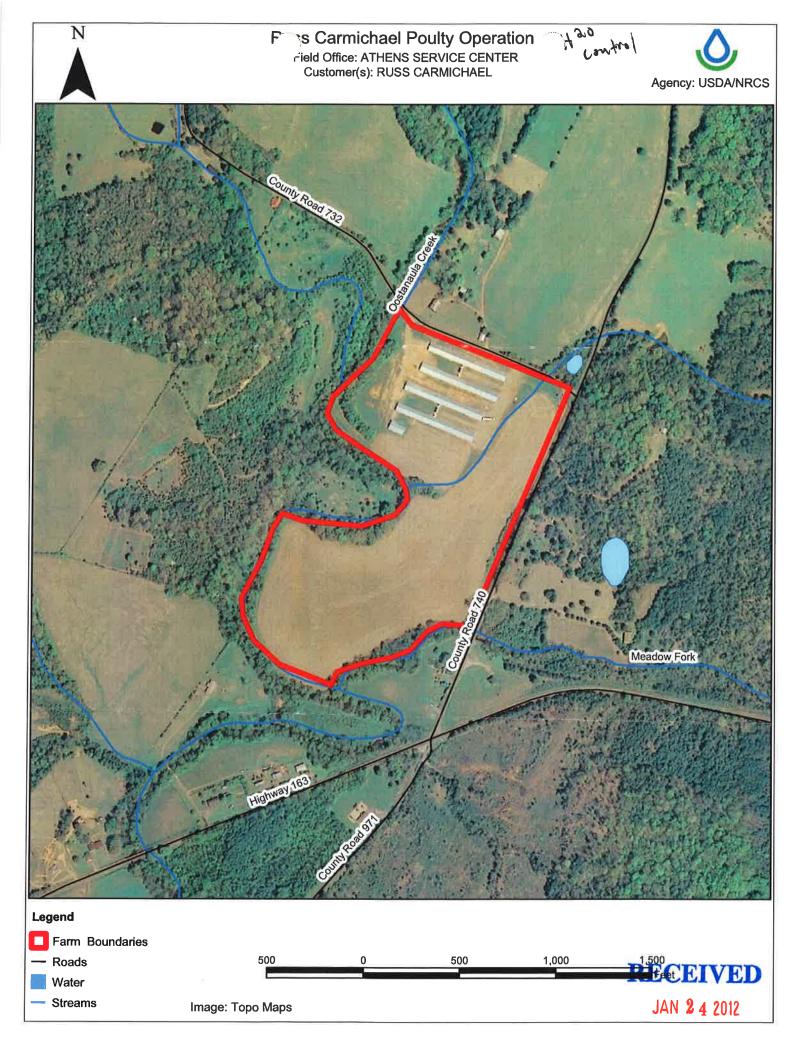
Date: 7/29/

JUL 2 9 2015

# Nutrient Management Plan - Poultry Keep For Your Records

Names	of Person	s / Comp	anies Re	movin	g Poulti	y Litter	from		
Alexand.		Name of Fa	rm / 90er	ation W	/here Litte	r Originat	es		
mike	Name: Address:	1960	WAt		7	0		26	
Brown	Phone:	593.	5821			Bra	County	.0	
	Estimated Tons of Litter:	Date	Tons	Date	Tons	Date	Tons	Date	Tons
	Name:	in the							
	Address:	15/05/				10000	County		
	Phone: Estimated	Date	Tons	– Date	Tons	Date	Tons	Date	Tons
	Tons of Litter:								
	Name:								
	Address:						County		
	Phone:  Estimated  Tons of  Litter:	Date	Tons	Date	Tons	Date	Tons	Date	Tons
	Name:						REC	ETVEL	
	Address:						County	<u>2</u> 9 2015	
	Phone:	Date	Tons	_ Date	Tons	Date	Tons	Date	Tons







### Manure Analysis Report

#### **CUMBERLAND VALLEY ANALYTICAL SERVICES**

Quantitative & Qualitative Analysis
PO Box 669 Maugansville, Maryland 21767-0669
Phone: 301-790-1980 Fax:301-790-1981

Email: mail@foragelab.com web-site: www.foragelab.com

Analysis Report For:

VALLEY FARMERS COOP/ATTN: JOAN

**RICK BARHAM** 

920 NORTH CONGRESS PARKWAY

Water Soluble P (g/kg dry matter):

P Source Coefficient:

ATHENS TN 37303

Sample Information:

Farmname: CARMICHAEL, RUSS

Description: CHICKEN LITTER

Report Date: 07/27/2015

Sample ID: 13684811

Analysis Report
Results Reported on "As Received/Wet" Sample

Results R	eported on "As	Received/Wet" San	nple	
Test	Percent	Lbs/1000 Gal	Lbs/Ton	
Solíds:	33.14			
Moisture:	66.86			
Total Nitrogen:	0.887	83.66	17.74	
Ammonia Nitrogen:	0.438	41.35	8.77	
P2O5:	1.718	162.01	34.35	
K20:	1.491	140.61	29.81	
Ca:				
Mg:				
Na:	5		S	
Test	mg/kg	Lbs/1000 Gal	Lbs/Ton	
Cu:				
Mn:				
Fe:				
Zn:				
	Other <sup>-</sup>	Tests		_ 
Density: C to N ratio:	9.43 Lbs/g	gallon 70.5	5 ibs/Cu Ft	
Volatile % of Solids:	<b>-</b> .			

Form Man\_Report Ver 10,703



JUL 2 9 2015